

ABSTRACT OF THE DISCLOSURE

[0040] A liquid material supply system includes a plunger pump, a flow regulating valve, an air-operated valve, a spring type accumulator and a dispenser. The plunger pump is connected to the flow regulating valve by a primary supply line. The flow regulating valve is connected to the dispenser by a secondary supply line. The on-off valve is connected to the secondary supply line. The accumulator is connected to the secondary supply line between the on-off valve and the dispenser. A pressure sensor detects the pressure substantially at the inlet port of the dispenser. This pressure is the basis for controlling the operation of the air-operated valve through an electromagnetic valve. The second chamber of the accumulator can store part of the liquid material supplied through the secondary supply line. The second chamber varies in volume with the balance between the force of the accumulator spring and the pressure in the secondary supply line so as to relax the pressure fluctuation in this line.